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JOURNAL

OF THE

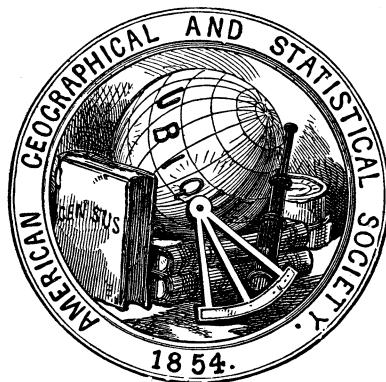
American Geographical Society

OF

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IN SENATE,

April 9th, 1874.

ANNUAL REPORT

OF THE

AMERICAN GEOGRAPHICAL SOCIETY OF NEW YORK

For the Year 1873.

AMERICAN GEOGRAPHICAL SOCIETY,
COOPER INSTITUTE,
NEW YORK, April 7th, 1874. }

Hon. JOHN C. ROBINSON,

President of the Senate of the State of New York:

SIR,—In conformity with the provisions of the act incorporating this Society, I have the honor to transmit herewith the annual report of the American Geographical Society for the year 1873.

Very respectfully yours,

ALVAN S. SOUTHWORTH,

Recording Secretary.

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 PAYNO, Señor Don MANUEL, Mexico.
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 STEVENS, HENRY, London, England.
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N. B.—Those having L. F. preceding their names have compounded for life

Year of Election.	
1870,	Abbe, George W.
1860,	Acton, Thomas C.
1869,	Aguiar (de) A. W. F.
1873,	Albert, H.
1872,	Alburtis, Edward K.
1869,	Allen, Jerome.
1872,	Allen, Horatio M.
1853,	Alsop, Joseph W.
1868,	Appleton, William H.
1859,	L. F. Arnold, Daniel H.
1859,	Arnoux, William H.
1870,	Asher, John R.
1856,	Aspinwall, William H.
1871,	Atterbury, Rev. Wm. Wallace.
1860,	Auchmuty, Richard Tylden.
1859,	L. F. Aymar, William.
1869,	Bailey, James Mühlenberg.
1873,	Bailey, N. P.
1856,	Ball, Henry.
1856,	Baker, Francis.
1852,	L. F. Bancroft, George.
1868,	Banks, David, Jr.
1865,	Banvard, John.
1869,	Banyer, Goldsboro.
1873,	Barbour, J. M.
1868,	Barlow, Gen. Francis C.
1859,	Barlow, S. L. M.
1858,	Barney, Danford N.

Year of Election.	
1852,	L. F. Barney, Hiram.
1868,	Barrett, William C.
1869,	Barrow, John W.
1868,	Beardslee, Rufus G.
1868,	Beckwith, N. M.
1868,	Beebe, Welcome R.
1857,	Beekman, James W.
1870,	Bell, George.
1865,	Bellows, Rev. Henry W., D. D.
1858,	L. F. Belmont, August.
1868,	Benedict, Erastus C.
1868,	Bennett, James Gordon.
1869,	Bergh, Henry.
1868,	Bernheimer, Adolph.
1859,	Bernheimer, Isaac.
1868,	Bernheimer, Leopold.
1868,	Bernheimer, Simon.
1856,	Berry, Richard.
1869,	Bickmore, Prof. Albert S., M. A.
1869,	Bierstadt, Albert.
1868,	Bill, Edward.
1870,	L. F. Bishop, T. Alston.
1856,	Black, William D.
1868,	Blake, Charles F.
1868,	Bleecker, T. B., Jr.
1872,	Blodgett, Daniel C.
1860,	Blodgett, William T.
1873,	Blood, O. Howard.
1869,	Bloomfield, William.
1869,	Boardman, Andrew.
1870,	Body, Jno. E.
1871,	Bolton, Henry C., Ph. D.
1859,	Boorman, J. M.
1856,	Booth, William T.
1857,	Booth, William A.
1870,	Botta, Prof. Vincenzo.
1873,	Bradford, James F.
1869,	Bradford, William.
1868,	Brady, John R.
1856,	Brevoort, J. Carson.
1872,	Bridgham, S. W.
1870,	Brooks, Sidney.
1872,	Brown, Walston H.

**Year of
Election.**

1859,	L. F. Brown, James.
1853,	Brown, James M.
1856,	Brown, Stewart.
1872,	L. F. Bryce, James.
1869,	Burdett, Charles P.
1853,	Butler, Charles.
1870,	Butler, Cyrus.
1871,	Butler, Benj. F.
1861,	Butterfield, Gen. Daniel.
1873,	Casey, Jos. J.
1868,	Chapman, Joseph H.
1868,	Carter, James C.
1856,	Carter, Robert.
1861,	Cary, Lucius E.
1863,	L. F. Cary, William F.
1870,	Casserly, Bernard.
1868,	L. F. Catlin, N. W. Stuyvesant.
1859,	Chapin, Rev. E. H., D. D.
1871,	Charlick, Oliver,
1868,	Choate, William G.
1869,	Churchill, Franklin H.
1868,	Cisco, John J.
1872,	Clark, E. V.
1859,	Clift, Smith
1864,	Clews, Henry
1856,	Colgate, Charles C.
1852,	L. F. Colton, Joseph H.
1870,	Conger, Clarence R.
1869,	Conger, Abraham B.
1870,	Conklin, William A.
1872,	Conklin, Eugene E.
1854,	L. F. Conkling, F. A.
1856,	L. F. Cooley, James E.
1856,	Cooper, Edward.
1855,	Cooper, Peter.
1862,	Corse, Israel.
1873,	Coster, Charles H.
1868,	Coulter, Samuel.
1862,	Cowdin, Elliott C.
1871,	Cox, James Farley.
1872,	Cox, Samuel S.
1872,	Crain, Dunham Jones.

Year of Election.	
1862,	Crawford, S. W., Gen. U. S. A.
1856,	Crooks, Ramsey.
1870,	Cruickshank, James, LL. D.
1869,	L. F. Cullum, George W., Maj.-Gen. U. S. A.
1858,	Currie, Gilbert E.
1856,	Curtis, Lewis.
1856,	Curtis, William E.
1855,	Daly, Charles P., LL. D.
1871,	Daly, Joseph F. ...
1866,	Darling, William A.
1870,	Dash, John B.
1870,	Davison, Edward F.
1870,	Davis, Alexander J.
1868,	Dawson, H. B.
1868,	De Costa, Rev. B. F.
1873,	Delano, Franklin H.
1868,	L. F. Dennis, Charles.
1872,	L. F. De Peyster, Frederick
1864,	Detmold, Christian E.
1853,	Detmold, William, M. D.
1868,	De Voe, Thomas F.
1859,	Dickerson, E. N.
1870,	Dinsmore, William B.
1869,	Dodge, Robert.
1856,	Dodge, William E.
1856,	Dodge, William E., Jr.
1856,	Doremus, R. Ogden, M. D.
1856,	Douglass, Andrew E.
1868,	Draper, Henry, M. D.
1873,	Drone, Eaton S.
1870,	Drown, Henry T.
1868,	Du Chaillu, Paul B.
1856,	Duncan, Wm. Butler.
1855,	Dunshee, Henry W.
1868,	Duyckinck, Evert A.
1870,	Durant, Thomas C., M. D.
1873,	Dwight, James F.
1868,	Dwight, Prof. Theo. W., LL. D.
1868,	Edmonds, J. W.
1872,	Edwards, Jonathan.
1873.	Ellinger, Moritz

Year of Election.	
1856,	Elsworth, Henry.
1868,	Emmet, Thomas Addis, M. D.
1869,	Emott, James
1864,	Evans, Walton W.
1859,	Evarts, Wm. M.
1853,	Eyre, Henry S. P.
1864,	Faile, Thomas H.
1873,	Farrell, Thomas M.
1856,	Fernbach, Henry.
1856,	L. F. Field, B. H.
1854,	L. F. Field, Cyrus W.
1856,	Field, David Dudley
1869,	Field, Dudley.
1860,	Field, Rev. H. M.
1852,	L. F. Field, Hickson W.
1857,	Fish, Hamilton.
1873,	Fithian, Freeman J.
1871,	Fliess, William M.
1859,	L. F. Fogg, William H.
1869,	Forsyth, Rev. John, D. D.
1859,	Fowler, Edward P., M. D.
1873,	Freedman, John J.
1873,	Francis, John M.
1868,	Frohwein, Theobald.
1871,	Fry, Horace B.
1869,	Furniss, William.
1853,	Gaillard, Joseph.
1868,	Gambrill, C. D.
1869,	Ganse, Rev. H. D., D. D.
1868,	Gardner, A. K., M. D.
1873,	Garvin, Samuel B.
1873,	Gavit, John E. ...
1868,	L. F. Gebhard, William H.
1873,	Gedney, Frederick G.
1869,	Gerard, James W.
1872,	Gerard, James W., Jr.
1868,	L. F. Gerry, Eldridge T.
1856,	Gescheidt, Louis A., M. D.
1869,	Gilbert, Clinton.
1868,	Gillies, James W.
1871,	Gilman, William C.

**Year of
Election.**

1873,	Gilmore, Maj.-Gen. Q. A., U. S. A.
1873,	Glaubensklee, Theo. G.
1870,	Goldman, Marcus.
1868,	Goldsmith, Jacob.
1872,	Godon, Rear-Admiral S. W., U. S. N.
1872,	Goulding, B. L.
1870,	Graham, Gen. C. K.
1860,	L. F. Graham, James L.
1859,	Graham, R. M. C.
1868,	Green, Andrew H.
1852,	L. F. Green, John C.
1867,	Greene, Gen. G. S.
1857,	L. F. Greene, John W., M. D.
1856,	Greenwood, Isaac I.
1853,	Grinnell, Moses H.
1872,	Grinnell, R. M.
1859,	L. F. Griswold, George.
1871,	Groom, Wallace P.
1853,	Guernsey, Egbert, M. D.
1869,	Habicht, C. E.
1869,	Hadden, John A.
1868,	Hall, Elial F.
1871,	Hall, A. Oakey.
1869,	Halsted, William M.
1872,	L. F. Hamersley, John W.
1871,	Hamilton, Alexander, Jr.
1864,	Hammond, Henry B.
1871,	Hand, Clifford A.
1870,	Harris, R. Duncan.
1868,	L. F. Harris, Townsend.
1870,	Harrison, Thomas F.
1868,	Hartt, Prof. Ch. F., M. A.
1859,	L. F. Havemeyer, John C.
1870,	Havens, Charles G.
1868,	Hayes, Isaac I., M. D.
1869,	Hayes, William J.
1870,	Hawkes, Prof. W. Wright.
1869,	Hazard, Rowland R., Jr.
1872,	Hawkins, Dexter A.
1872,	Hawley, E. Judson.
1868,	Hegeman, William.
1868,	Hegeman, William A. Ogden.

Year of Election.	
1859,	Henderson, John C.
1856,	Herring, Silas C.
1870,	Hess, Julius.
1856,	Hewitt, Abram S.
1868,	Hewlett, John D.
1872,	Hoffman, William B.
1869,	Hoffman, Friedrich, Ph. D.
1868,	Hoguet, Robert J.
1872,	Holbrook, Levi.
1858,	L. F. Holton, David P., M. D.
1868,	Hoppin, William J.
1868,	Hoyt, David.
1865,	Hull, Amos G.
1873,	Hull, C. W.
1856,	Hunt, Wilson G.
1856,	Hunter, James.
1868,	Huntingdon, Daniel.
1868,	Hurlbert, William H.
1870,	Hutchings, Robert C.
1869,	Hutchins, Waldo.
1859,	Ireland, John B.
1871,	Jackson, H. A.
1868,	Jacob, Ephraim A.
1868,	Jarvis, Nathaniel, Jr.
1870,	James, Frederick P
1852,	L. F. Jay, John.
1872,	Joachimsen, Jos. P.
1855,	Johnson, Bradish.
1868,	Johnson, Hezron A.
1868,	Johnson, Henry W.
1856,	Johnston, James B.
1873,	Johnston, John Taylor.
1868,	Jones, Charles C., Jr.
1852,	L. F. Jones, John D.
1871,	Jones, Walter R. T.
1868,	Joy, Prof. Charles A.
1870,	Kane, J. Grenville.
1870,	Kaufmann, Sigismund.
1855,	Kearney, Edward.
1873,	Kelley, Lieut. J. D. J., U. S. N.
1872,	Kendrick, Col. H. L., U. S. A.

Year of Election.	
1854,	Kennedy, Robert L.
1873,	Kennan, George.
1865,	King, George.
1863,	King, Oliver K.
1852,	Kingsland, A. C.
1868,	Kirkland, Charles P.
1872,	Klamroth, Albert.
1853,	L. F. Knapp, Shepherd.
1873,	Koch, Joseph.
1870,	Kuhne, Frederick.
1862,	Lambert, E. W., M. D.
1868,	L. F. Lane, Smith E.
1856,	Lanier, J. F. D.
1871,	Larremore, Richard L., LL. D.
1859,	L. F. Lathers, Richard.
1873,	Latting, John J.
1868,	Lawrence, Abraham R.
1869,	L. F. Lawrence, John S.
1871,	Lee, Ambrose.
1854,	Lefferts, Marshall.
1859,	Lenox, James.
1868,	Leonard, William H.
1868,	Leslie, Frank.
1871,	Letson, Robert S.
1872,	L. F. Libbey, William.
1852,	L. F. Livingston, Cambridge.
1870,	Loew, Frederick W.
1873,	Lohenstein, Baron.
1857,	Low, A. A.
1873,	Lydig, David.
1870,	Lyman, Edward H. R.
1863,	Mackie, Robert.
1871,	Maclay, Robert.
1869,	Maclay, William B.
1870,	MacMillan, Charles, M. D.
1872,	Macmillan, Frederick.
1856,	Manners, David S.
1870,	Marbury, Francis F.
1872,	L. F. Marié, Peter.
1868,	Marquand, Henry G.
1868,	Marsh, Luther R.

Year of Election.	
1863,	Marshall, Chas. H.
1871,	Marston, Charles E.
1868,	Martin, Isaac P.
1870,	Martin, William R.
1869,	Martine, Randolph B.
1868,	Matsell, George W.
1872,	L. F. Matthews, Edward.
1872,	Maury, Rev. Myton.
1863,	May, Lewis.
1871,	Mayo, William S.
1858,	McClure, George.
1871,	McCreery, James A.
1868,	McKellar, William.
1868,	McLean, James M.
1859,	McMullen, John.
1872,	Meeker, H. G.
1870,	Menzies, William.
1863,	Merrick, John S.
1872,	Meyer, F. William.
1870,	Miles, Edward D.
1869,	Miller, Charles R.
1872,	Miller, Morris S.
1868,	Miller, Edmund H.
1868,	Mitchell, Grove P.
1871,	Mitchell, Samuel A.
1856,	Monroe, Ebenezer.
1868,	Montgomery, Archibald G., Jr.
1870,	Morel, E. B.
1868,	Moreau, John B.
1873,	Moore, C. B.
1859,	L. F. Moore, Frank.
1853,	L. F. Moore, George H.
1869,	Moore, Henderson.
1863,	L. F. Moore, W. H. H.
1856,	Morgan, E. D.
1865,	Morgan, William D.
1859,	Morrell, William H.
1873,	Morris, Gouverneur, Jr.
1870,	Morris, Harry M.
1866,	Morris, Robert R.
1868,	Morrison, Henry.
1864,	Morton, Levi P.

Year of Election.	
1869,	L. F. Mount, Richard E.
1856,	Murdock, U. A.
1868,	Murphy, Henry C.
1868,	Murphy, Thomas.
1870,	Murray, D. Colden.
1870,	Myer, Maj.-Gen. A. J., U. S. A.
1870,	Myers, Alfred G.
1852,	Myers, T. Bailey.
1873,	Nassau, C. W.
1873,	Neilson, Frederic.
1870,	Neilson, William H.
1868,	Newberry, Prof. John S., M. D.
1856,	Niblo, William.
1856,	Nichols, Effingham H.
1859,	L. F. Norrie, Adam.
1871,	O'Callahan, Edmund B., LL. D.
1869,	O'Conor, Charles.
1868,	Ogden, Alfred.
1859,	Ogden, William B.
1857,	Opdyke, George.
1869,	O'Rielly, Henry.
1871,	Palmer, Courtland, Jr.
1872,	Parish, Henry.
1868,	Parton, James.
1868,	Paulison, John P.
1871,	Pavy, Octave.
1871,	Peabody, Charles A.
1869,	Perault, George.
1868,	Pfeiffer, Carl.
1862,	Phillips, George W.
1860,	L. F. Phelps, Royal.
1868,	Philbin, Stephen.
1855,	Pierrepont, Edwards.
1852,	L. F. Pierrepont, Henry E.
1873,	Platt, James N.
1873,	Plum, E.
1852,	L. F. Poor, Henry V.
1860,	Potter, Clarkson N.
1871,	Potter, Howard.
1868,	Powers, William P.
1852,	L. F. Prime, Frederick.

<u>Year of Election.</u>	
1859,	L. F. Prime, Frederick E.
1868,	Prime, William C.
1872,	Prime, Temple.
1869,	Pruyn, John V. L., LL. D.
1859,	L. F. Punnett, James.
1859,	Purser, George H.
1870,	Putzel, Mayer.
1857,	Pyne, Percy R.
1856,	Randolph, A. D. F.
1859,	Rapallo, Charles A.
1873,	Raynolds, C. T.
1868,	Raven, Anton A.
1859,	L. F. Reckendorfer, Joseph.
1868,	Redfield, Amasa A.
1873,	Reed, Mrs. Sylvanus.
1873,	Reinhart, B. F.
1873,	Remington, Samuel.
1856,	Remsen, William.
1868,	Rhinelander, William C.
1873,	Rich, John B., M. D.
1868,	Richmond, Henry A.
1856,	Riker, John H.
1872,	L. F. Robbins, Chandler.
1873,	Roberts, E. H., M. C.
1873,	Robertson, Col. D. A.
1868,	Roberts, Marshall O.
1871,	Robinson, Douglass.
1871,	Robinson, Hamilton W.
1872,	Roelker, Bernard.
1861,	L. F. Rogers, C. B.
1869,	Rogers, David L., M. D.
1869,	Roosevelt, Theodore.
1868,	Rose, Cornelius.
1854,	Ruggles, Samuel B.
1868,	Russell, John A.
1870,	Rutherford, John A.
1854,	Rutherford, L. M.
1868,	Sanger, A. L.
1869,	Savage, John.
1873,	Saul, Emil.
1870,	Schafer, Samuel M.

Year of Election.	
1870,	Schafer, Simon.
1859,	L. F. Schell, Augustus.
1870,	L. F. Schell, Richard.
1856,	Schermerhorn, W. C.
1856,	Schieffelin, S. A.
1869,	Schmidt, Oscar E.
1871,	Schnerr, Constant.
1856,	Schuchardt, Frederick.
1868,	Schultz, Jackson S.
1859,	L. F. Schultz, John H.
1873,	Scott, Julian.
1856,	Sears, Herman B.
1870,	Seligman, James.
1870,	Seligman, Jesse.
1870,	Seligman, Joseph.
1854,	Sewall, Henry F.
1868,	Seward, Carence A.
1871,	Shaler, Gen. Alexander.
1873,	Shaw, J. T., M. D.
1868,	Shea, George.
1856,	Sherman W. Watts.
1870,	Sherwood, John.
1870,	Simpson, Gen. James H., U. S. A.
1870,	Sistare, George K.
1870,	Slevin, Edward P.
1869,	Slevin, James M.
1873,	Slevin, Thomas E.
1868,	Smales, Holbert.
1868,	Smith, Augustus F.
1869,	Smith, C. Bainbridge.
1873,	Smith, E. Delafield.
1873,	Smith, James M., Jr.
1853,	Smith, James O., M. D.
1870,	Smyth, Frederick.
1873,	Southworth, Alvan S.
1868,	Spencer, Charles S.
1873,	Spencer, James C.
1856,	Spofford, Paul N.
1868,	Squier, E. George.
1859,	Stallknecht, F. S.
1856,	Stebbins, Henry G.
1871,	Steinwehr, Gen. A. von.
1872,	Steiger, E.

Year of Election.	
1872,	Stengel, Prof. Frederick.
1870,	Stephens, Edward.
1872,	Stern, Myer.
1869,	Sterne, Simon.
1870,	Stevens, Simon.
1870,	Stewart, Charles J.
1859,	Stewart, A. T.
1870,	Stoughton, Edwin W.
1870,	Stoughton, Henry E
1870,	Stoughton, Charles B.
1860,	L.F. Stout, Francis A.
1870,	Stout, John.
1858,	Straznicky, E. R., M. D.
1869,	Strebeigh, Robert M.
1873,	Strong, Charles E.
1859,	Strong, George T.
1860,	Stuart Alexander
1855,	Stuart Robert L.
1873,	Sturgis, Frank K.
1873,	Sturgis, Frederick.
1872,	L.F. Stuyvesant, Rutherford.
1861,	L.F. Suckley, George, M. D.
1871,	Swan, William H.
1857.	Taylor, Bayard.
1868,	Taylor, Douglas.
1870,	Taylor, George.
1855,	Tellkampf, T. A., M. D.
1857,	L.F. Thompson, David.
1854,	Thompson, Rev. Joseph P., D. D.
1870,	Thomson, James.
1857,	Thomson, Wm. H., M. D.
1870,	Tiedeman, Nicholas.
1870,	Tillman, Prof. S. D.
1856,	Tiffany, Charles L.
1868,	Tilden, Samuel J.
1872,	Tower, Gen. Z. B., U. S. A.
1873,	Townsend, Martin I.
1856,	Townsend, Randolph W.
1859,	Tracy, Charles.
1872,	Tracy, William.
1857,	Tremain, Edwin R.
1870,	Tuckerman, Lucius.

Year of Election.	
1859,	Turney, P. W.
1872,	Tyler, Arthur W.
1873,	Ullo, Lorenzo, LL. D.
1872,	Van Alen, Gen. J. H.
1872,	Van Alen, James J.
1870,	Van Brunt, Hon. Charles H.
1860,	Van Cott, Joshua M.
1869,	Vanderpoel, Aaron J.
1872,	Van Ness, Edward.
1868,	Van Santvoord, C.
1868,	Van Vorst, Hooper C.
1859,	Varnum, Joseph B.
1854,	Viele, Gen. Egbert L.
1869,	Wadsworth, E. Clifford.
1868,	Walker, Wm. Augustus.
1869,	Ward Elijah,
L.F.	Ward, George C.
1870,	Ward, Thomas W.
1856,	Warren, James K.
1853,	Watts, Ridley.
1854,	Webb, Wm. H.
1869,	Weber, Leonard, M. D.
1870,	Webster, Sidney.
1873,	Weeks, John A.
1866,	Wendell, Jacob.
1869,	Welles, James H.
1872,	Wells, Jacob.
1865,	Wells, Samuel R.
1856,	Westermann, B.
1870,	Weston, Theo., C. E.
1872,	Wetmore, George C.
L.F.	Wetmore, Samuel.
L.F.	Wetmore, Wm. Boerum.
1868,	White, Alexander.
1856,	White, John H.
1868,	Whitewright, Wm., Jr.
1873,	Wiener, Joseph, M. D.
1871,	Wilde, Samuel, Jr.
1860,	Winston, Frederick S.
1868,	Williams, B.

Year of Election	
1872,	L. F. Williams, Stephen C.
1870,	L. F. Wilson, Gen. James Grant.
1854,	L. F. Witthaus, G. H.
1854,	L. F. Witthaus, R. A.
1873,	Worthen William E., C. E.
1869,	Wreaks, Charles F.
1870,	Wright, E. Kellogg.
1873,	Yamada, Yokichi.
1871,	Youngs, Alfred.
1871,	Youngs, Henry I.
1868,	Zborowski, Martin.

P A R T I.

TRANSACTIONS OF THE SOCIETY
FOR THE YEAR 1873.

P A R T I I.

PAPERS READ BEFORE THE SOCIETY.

(NOTE.—THE AUTHORS ARE ALONE RESPONSIBLE FOR THE CONTENTS OF THEIR RESPECTIVE PAPERS.)
